



# Drought 2021

Candice Hasenyager



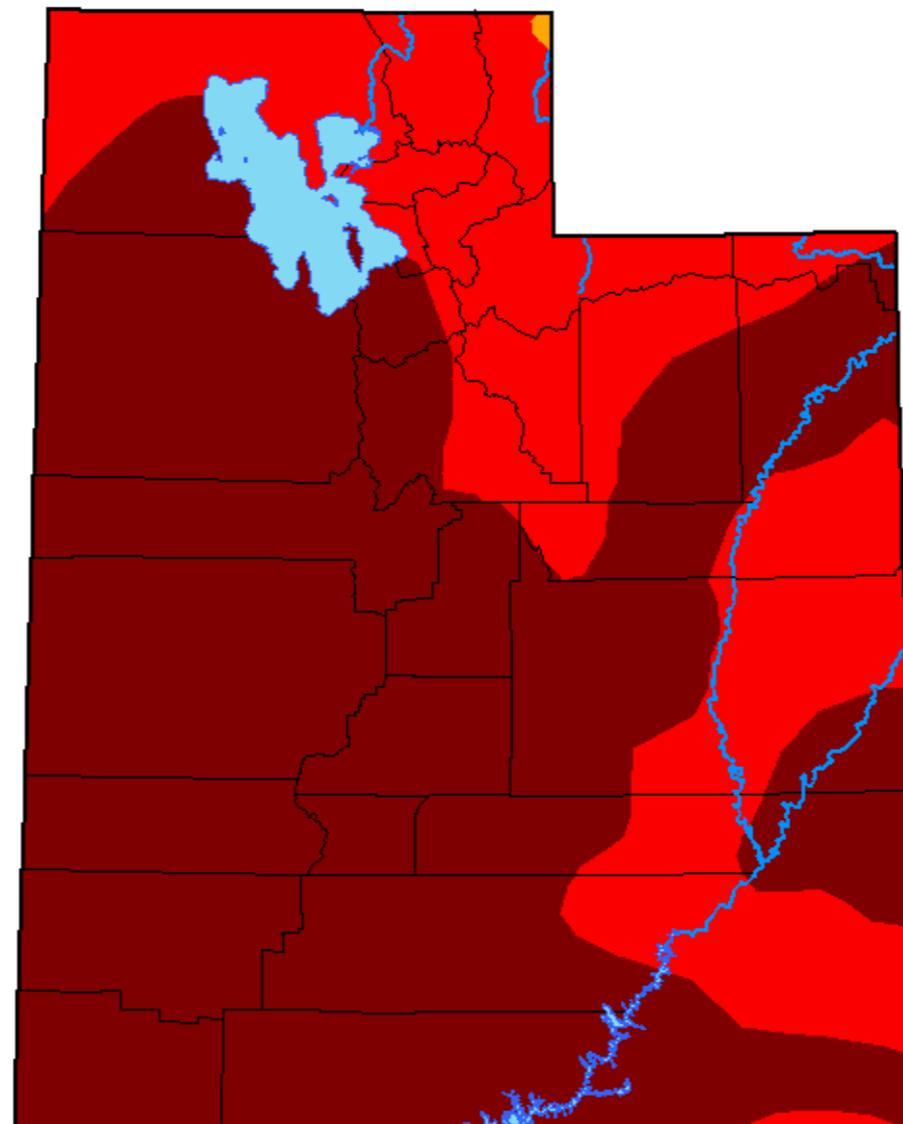


PLAN | CONSERVE | DEVELOP | PROTECT  
Utah's Water Resources

# Drought Conditions in July

## U.S. Drought Monitor Utah

**July 20, 2021**  
99.94% Extreme and Exceptional



### Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>*

### Author:

Brian Fuchs  
National Drought Mitigation Center



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)





July 21, 2021

Great Salt Lake is at an all-time low since lake level monitoring began in 1847



July 24, 2021  
Lake Powell dropped below the  
previous record low

SINCE 1948

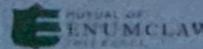
# HEINER'S INSURANCE CENTER

LORD, WHATEVER YOU'RE  
BAKING OUTSIDE  
IT'S DONE

We Pay for Ashes and Crashes

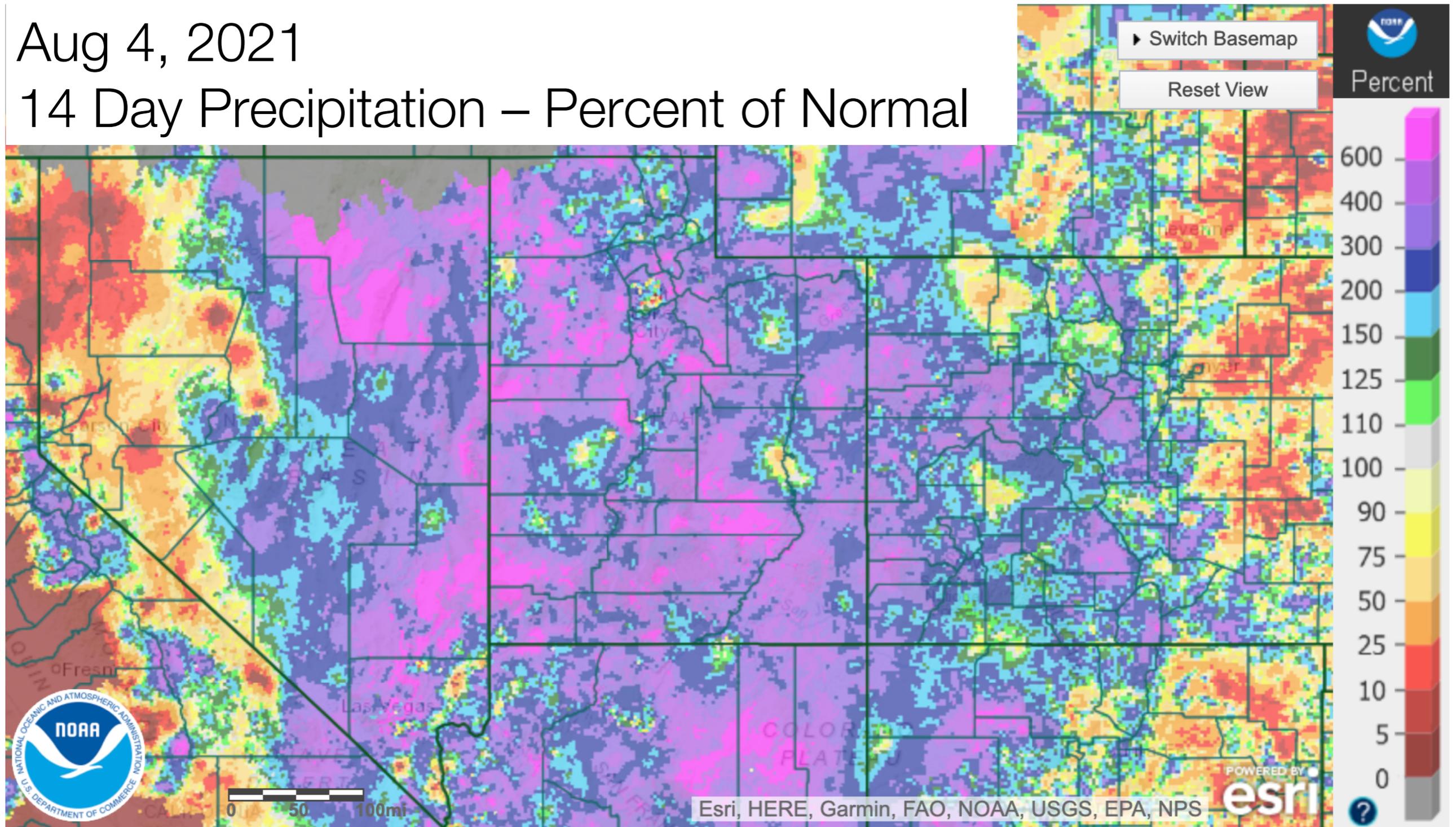


Auto-Owners  
INSURANCE



Aug 4, 2021

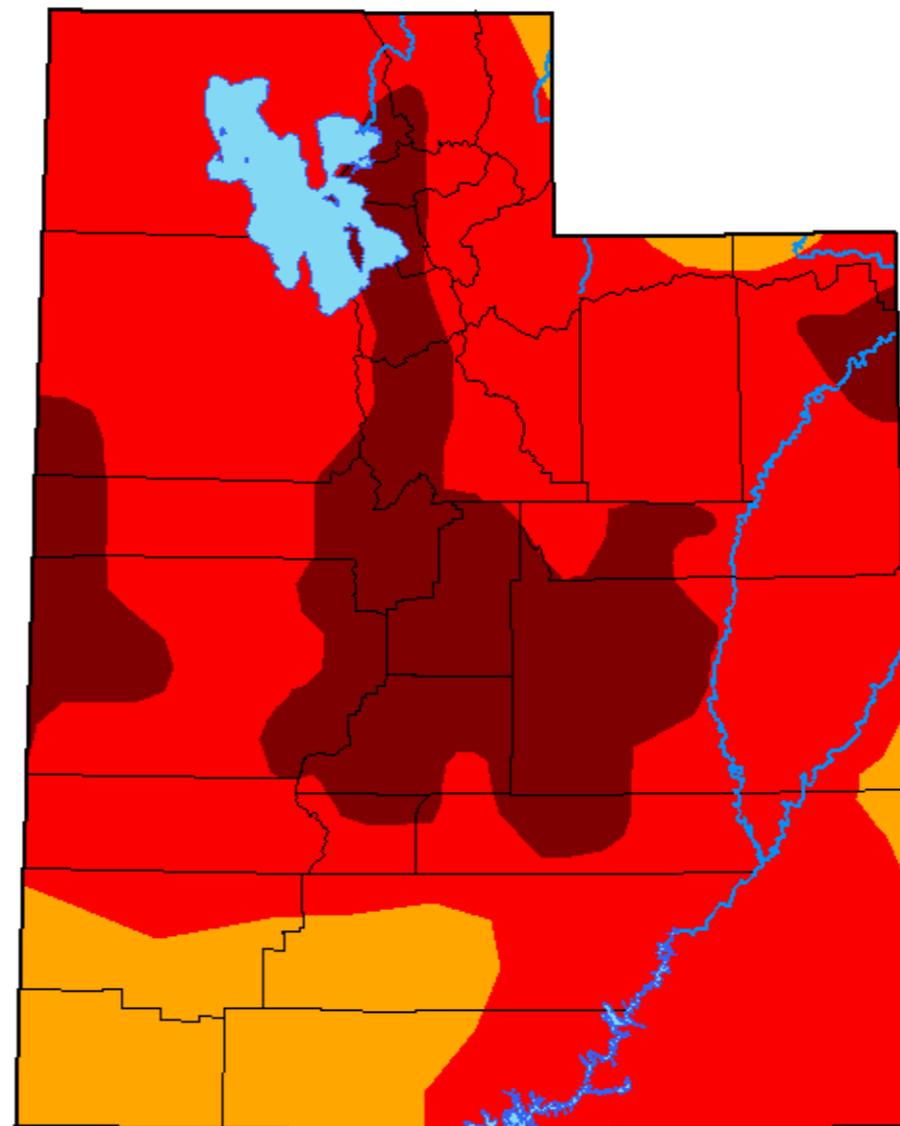
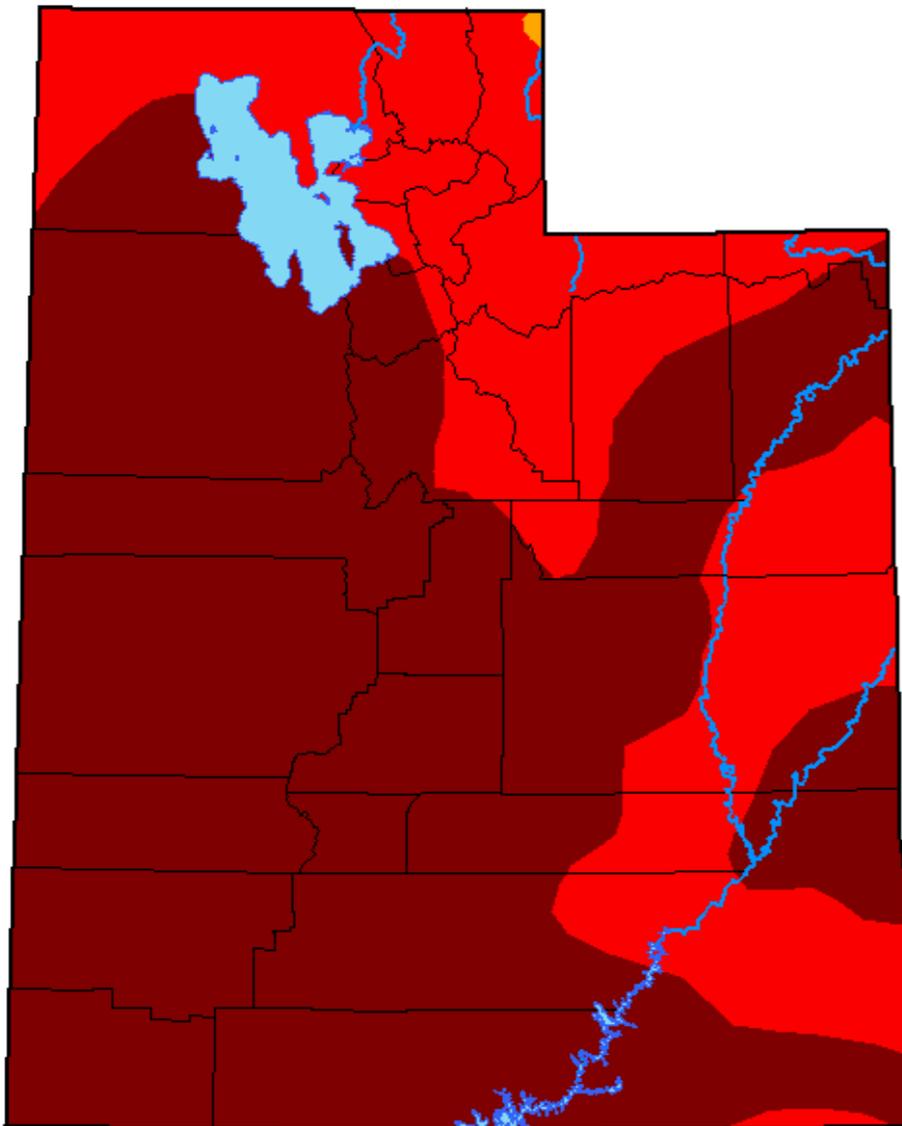
# 14 Day Precipitation – Percent of Normal



# Drought Conditions

July 20, 2021

September 7, 2021



**Intensity:**

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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99.94% Extreme and Exceptional

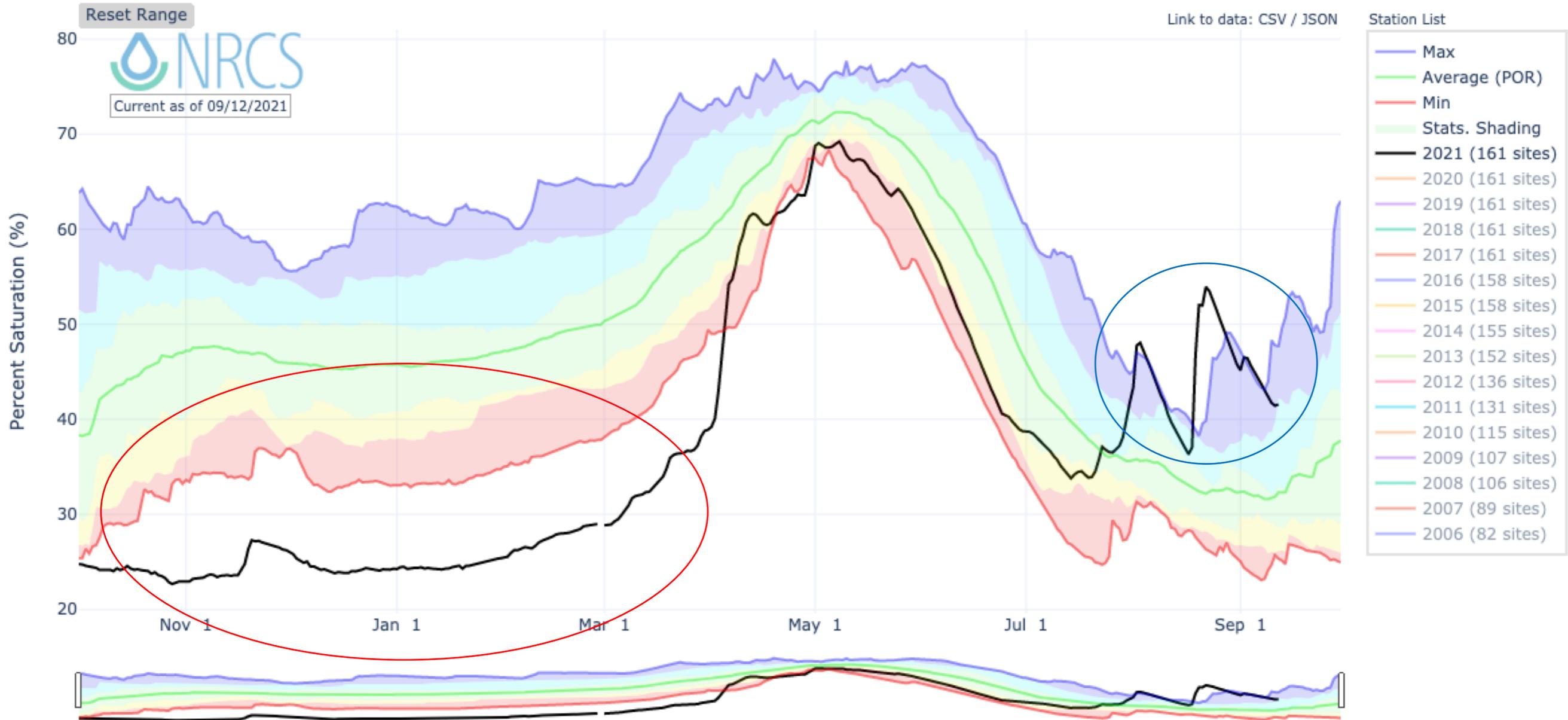
**U.S. Drought Monitor  
Utah**

88.07% Extreme and Exceptional



# Soil Moisture

## DEPTH AVERAGED SOIL SATURATION IN STATE OF UTAH



Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.  
For more information visit: [30 year normals calculation description](#).

# Precipitation

## PRECIPITATION IN STATE OF UTAH

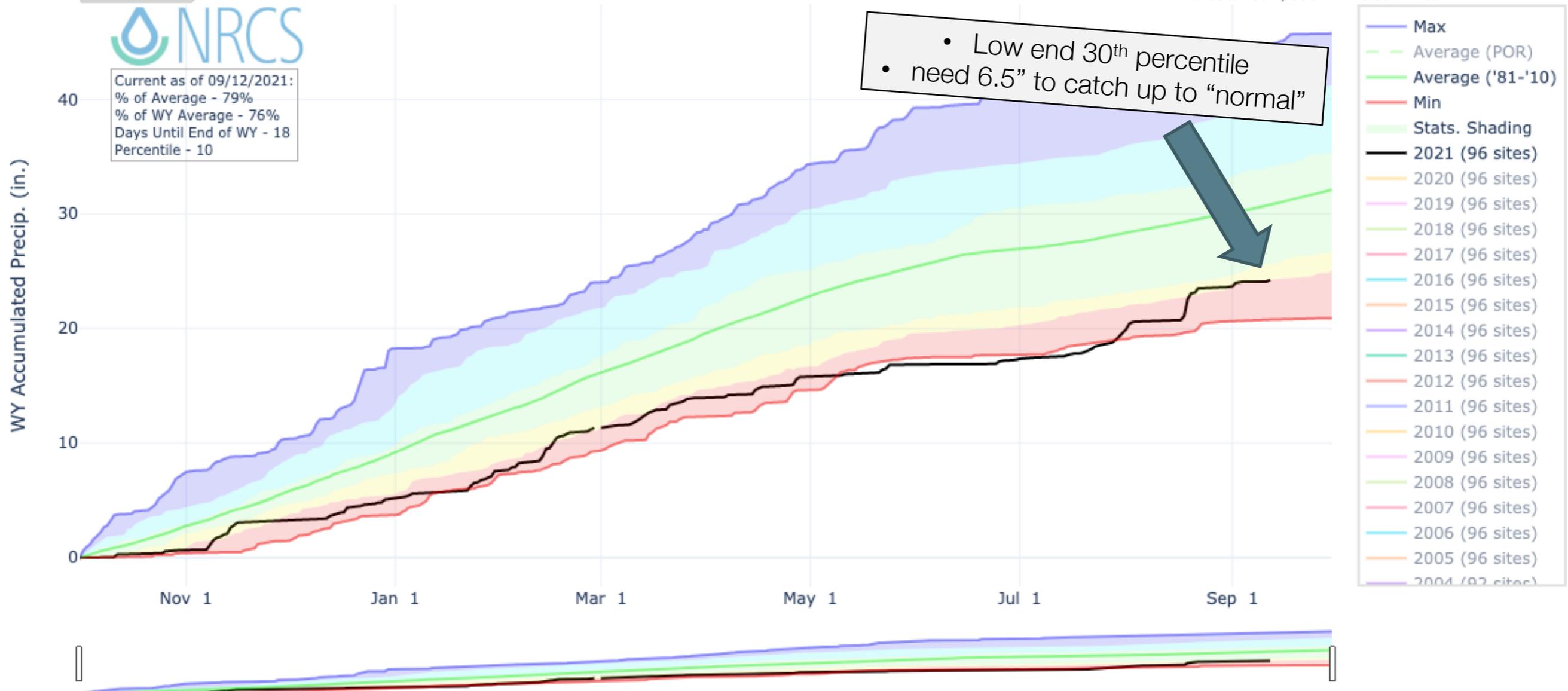
Reset Range



Current as of 09/12/2021:  
% of Average - 79%  
% of WY Average - 76%  
Days Until End of WY - 18  
Percentile - 10

[Link to data: CSV / JSON](#)

Station List



Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.  
For more information visit: [30 year normals calculation description.](#)

**DORMANT,  
NOT DEAD.**

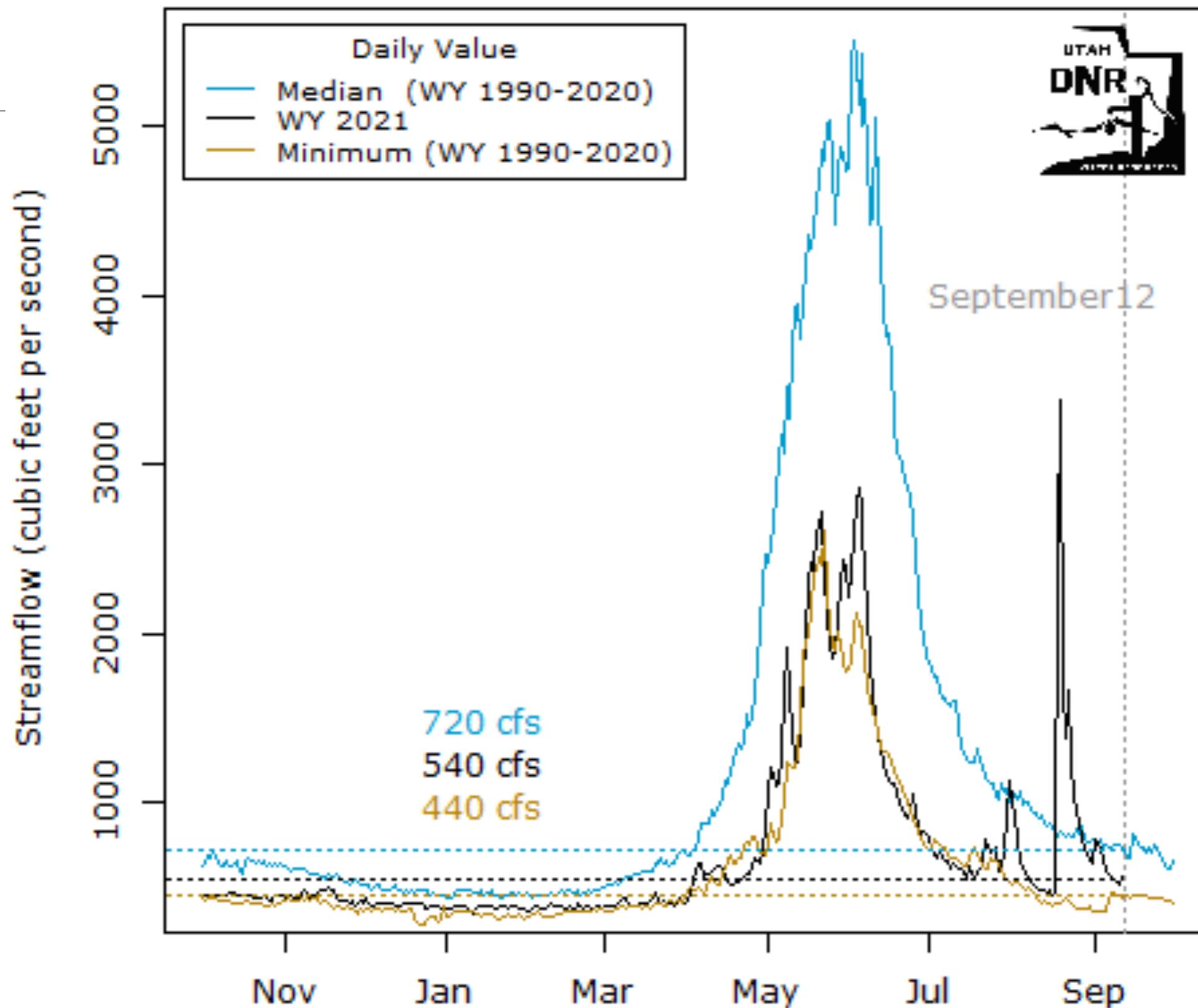
TAKE ACTION AT [SLOWTHEFLOW.ORG](http://SLOWTHEFLOW.ORG)

**DROUGHT '21**

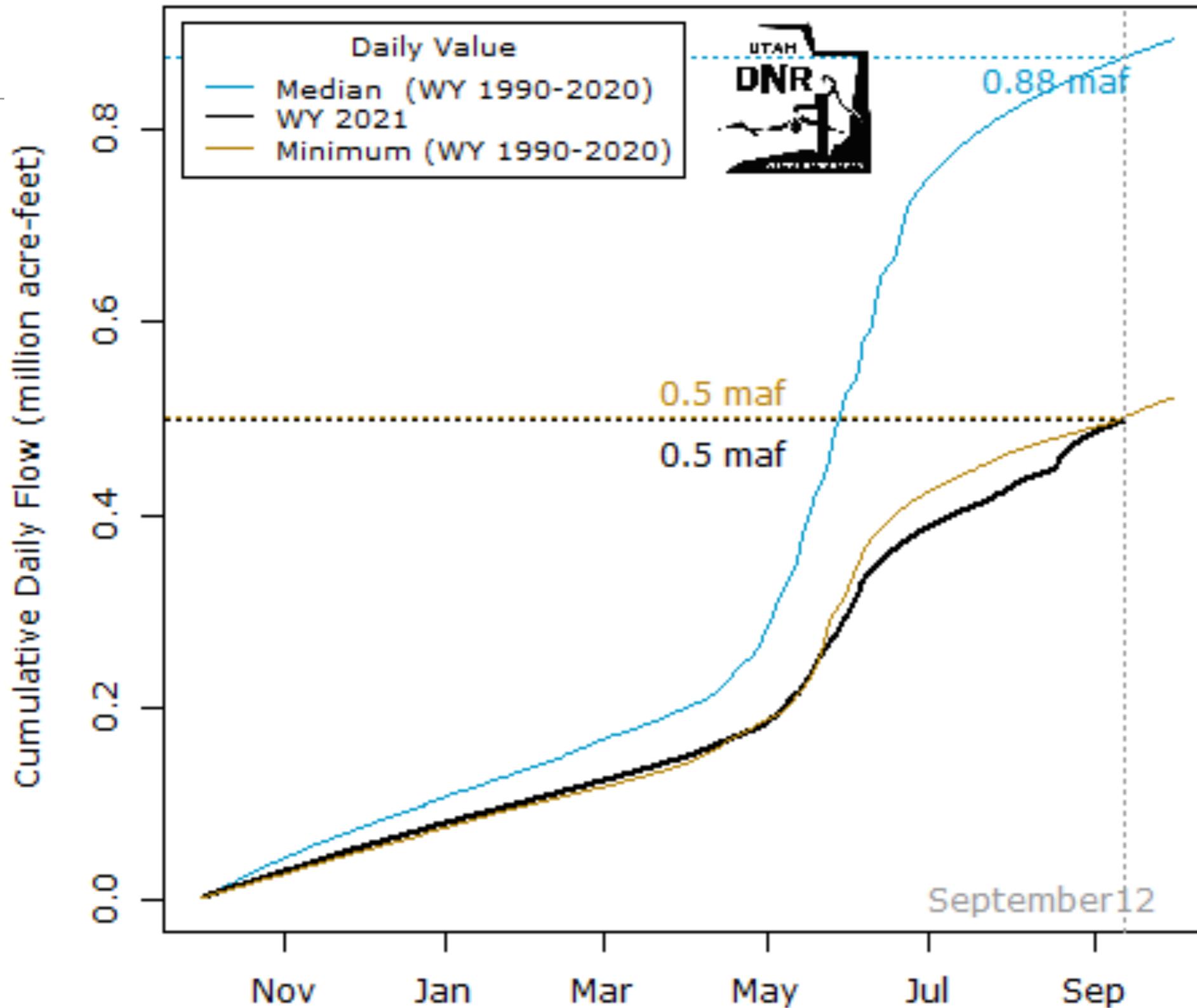
**SLOW  
THE  
FLOW.ORG**



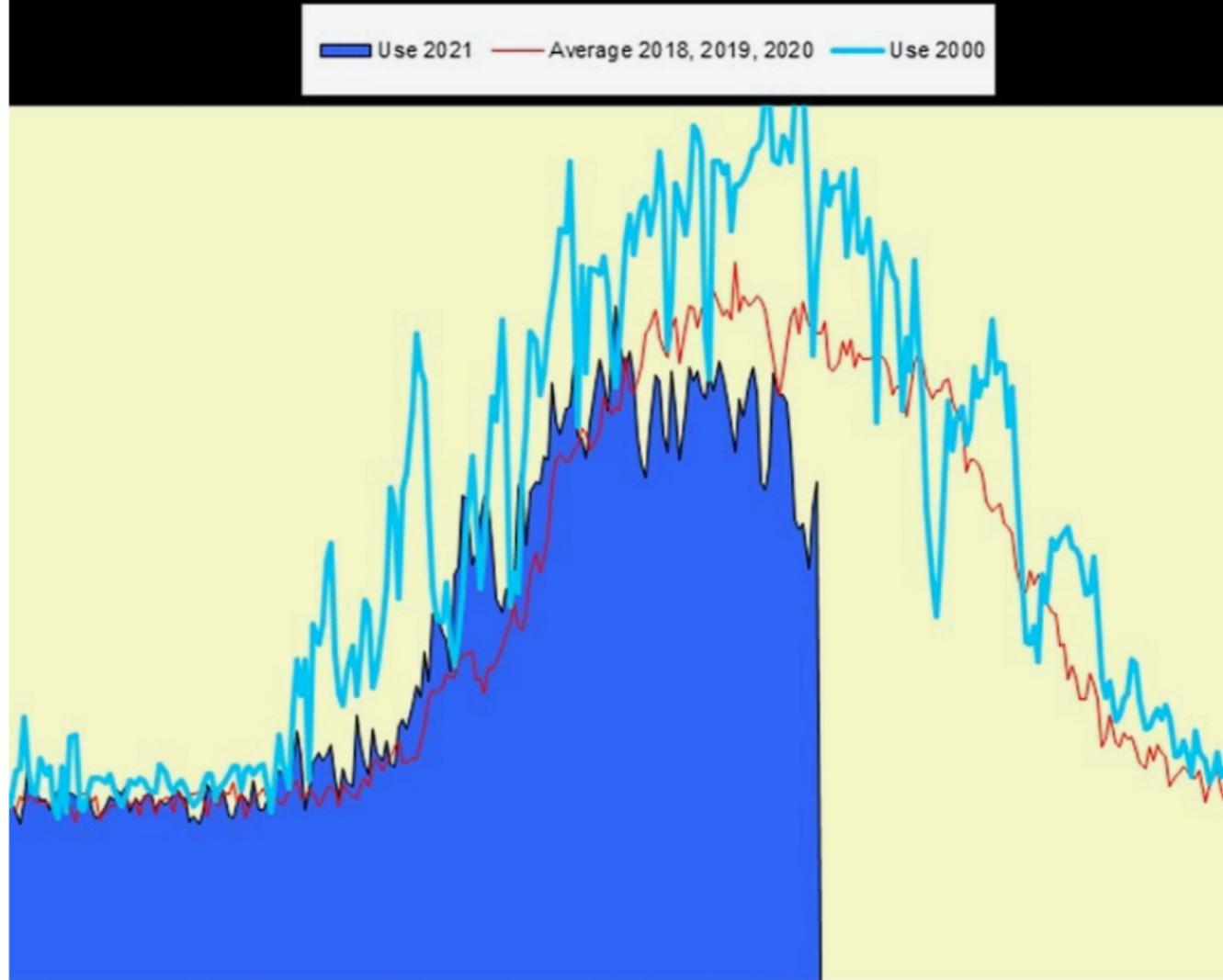
# Daily Flow from 28 Headwater Streams



# Cumulative Daily Flow of 28 Headwater Streams



# Drought Response Successes



24 likes

slcpu Wow! Thank you for conserving water.

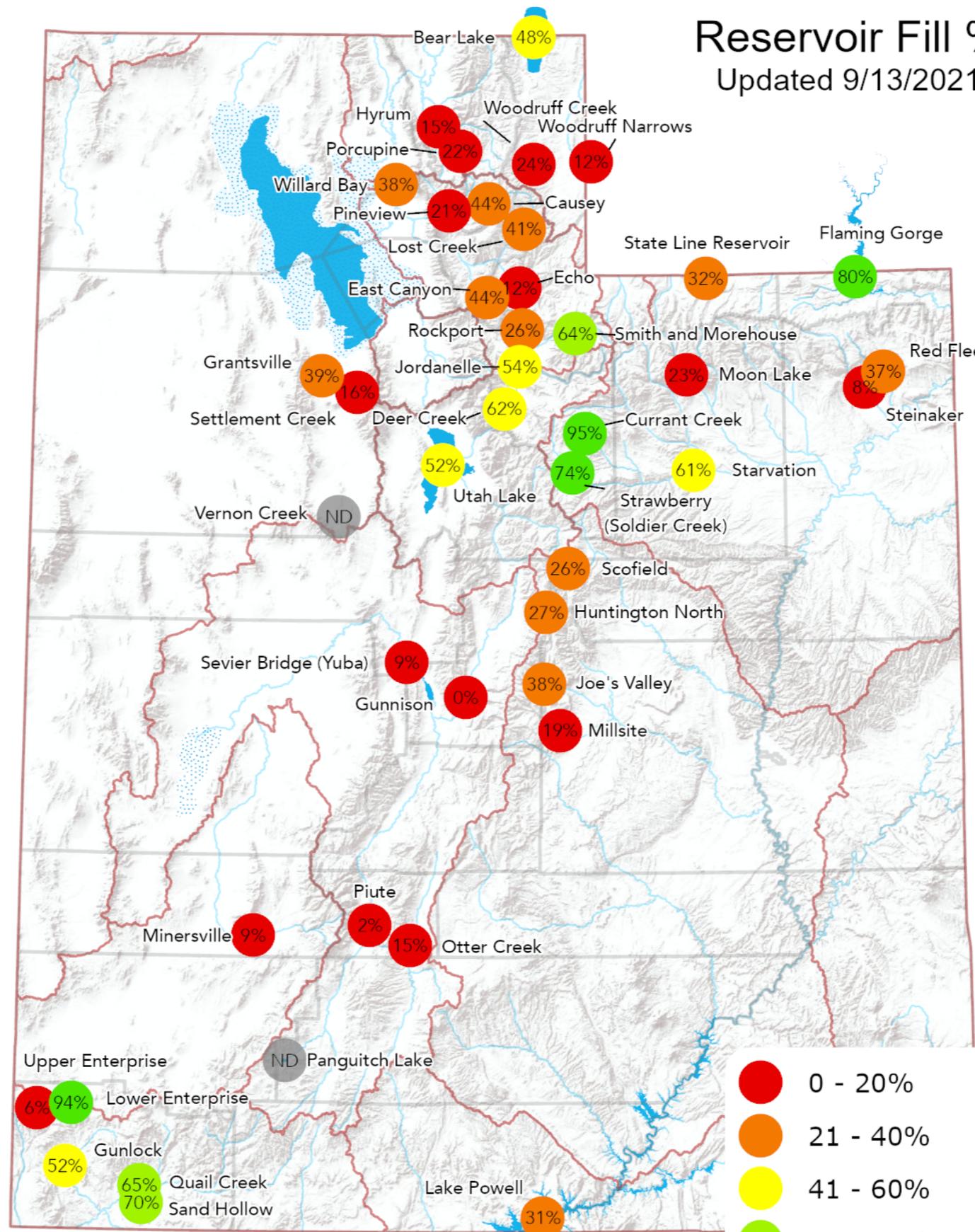
#keepitpure #waterconservation #utah #slc #slcpu... more

View all 2 comments

August 10

# Reservoir Fill %

Updated 9/13/2021



- 0 - 20%
- 21 - 40%
- 41 - 60%
- 61 - 80%
- 80 - 100%
- No Data



Data Sources  
 Bureau of Reclamation, Bear River Commission,  
 Emery Water Conservancy District,  
 Sevier River Water Users Association,  
 Washington County Water Conservancy District



# Responding to Drought

## Drought Response Committee

**Chair**  
 Director of Dept. of Natural Resources  
 State Drought Coordinator  
 Brian Steed

**Vice-Chair**  
 Director of Div. Emergency Management  
 Kris Hamlet

- Water Supply Availability Committee**
- Division of Water Resources  
Todd Adams
  - State Engineer
  - Office of the State Climatologist
  - U.S. Bureau of Reclamation
  - Division of Emergency Management
  - U.S. Geological Survey
  - Natural Resources Conservation Service
  - NOAA

- Task Force 1**  
 Municipal Water & Sewer Systems
- Department of Environmental Quality  
Kim Shelley
  - Department of Community & Economic Development
  - Utah League of Cities & Towns

- Task Force 2**  
 Agriculture
- Department of Agriculture  
Craig Buttars
  - State Food & Agriculture Committee
  - Division of Water Rights

- Task Force 3**  
 Commerce & Tourism
- Department of Community & Economic Development  
James Dixon
  - Division of Parks & Recreation
  - Utah Ski Association
  - National Park Service
  - Office of Tourism
  - County Governments

- Task Force 4**  
 Wildfire
- Division of Forestry, Fire & State Lands  
Jamie Barnes
  - Interagency Fire Partners

- Task Force 5**  
 Wildlife
- Division of Wildlife Resources  
Rory Reynolds
  - Regional Offices, DWR
  - U.S. Forest Service
  - Bureau of Land Management
  - U.S. Fish & Wildlife Service

- Task Force 6**  
 Economic Impacts
- Governor's Office of Management & Budget  
Sophia DiCaro
  - Department of Social Services
  - U of U Bureau of Economic Research
  - Department of Commerce
  - Department of Insurance
  - Financial Institutions
  - Department of Employment Security

Committee Support  
 Division of Water Resources



# Gathering Drought Impacts

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*Near Fillmore April 2021*



*Timpanogos October 2020*



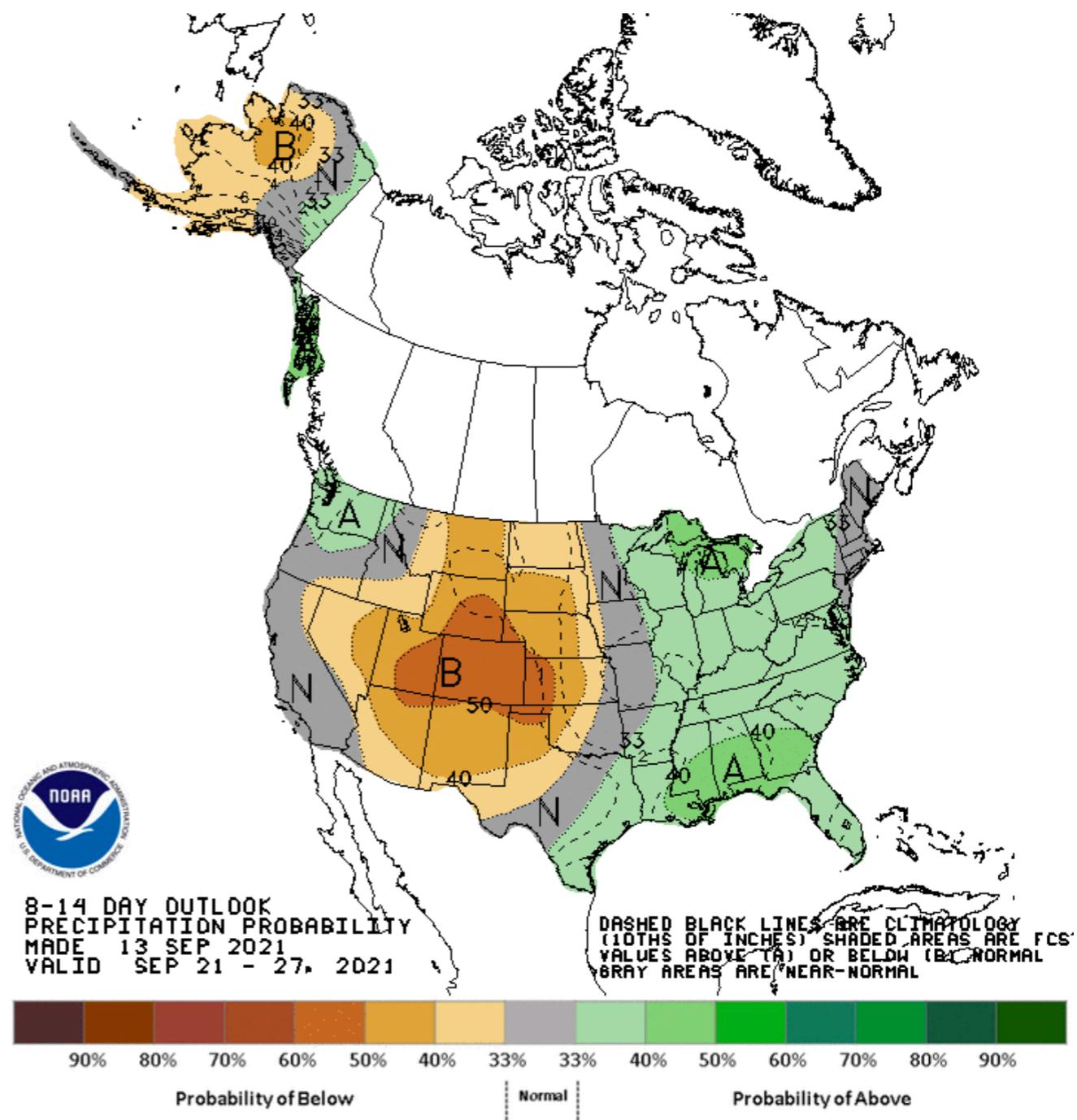
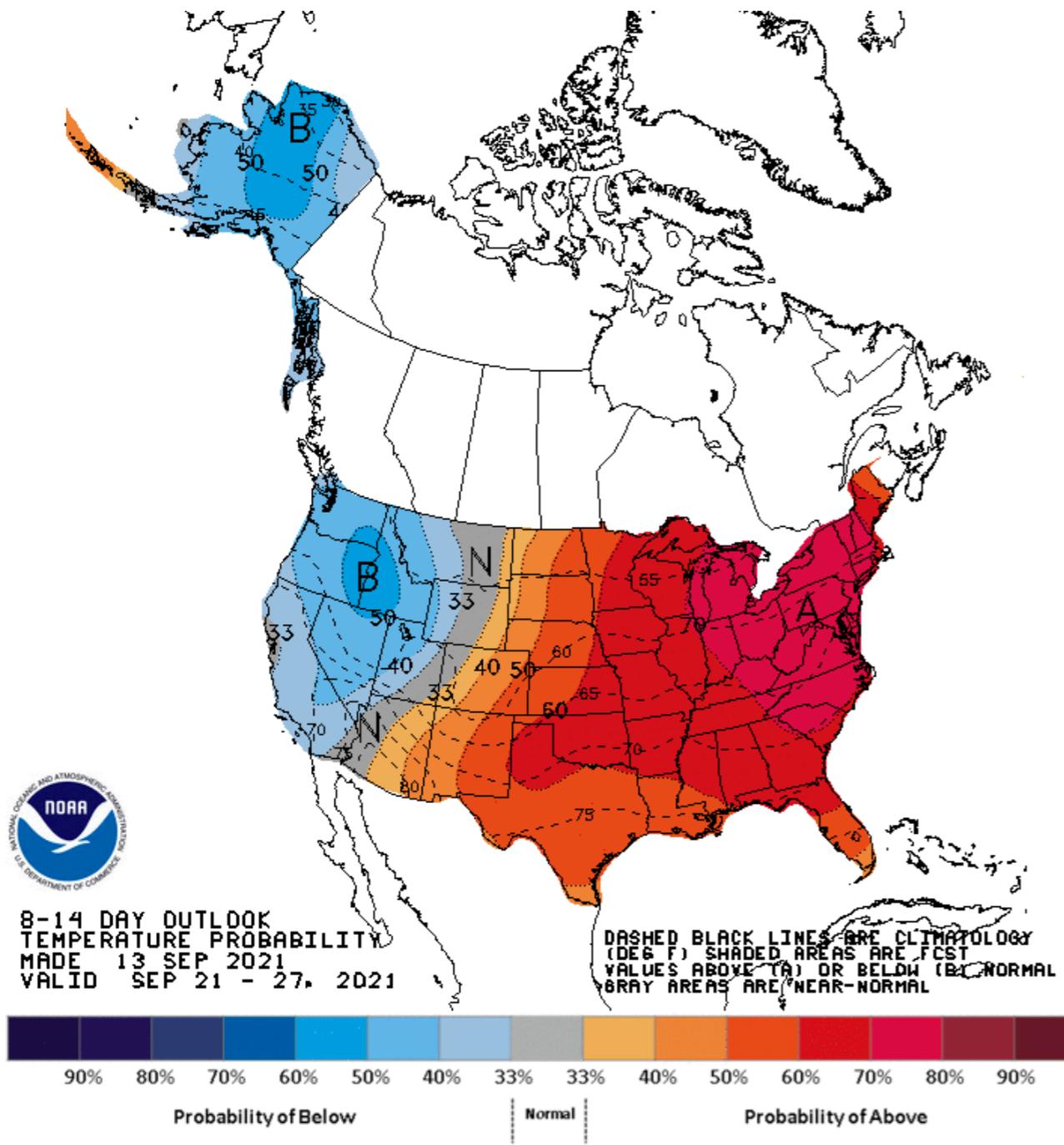
# Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly



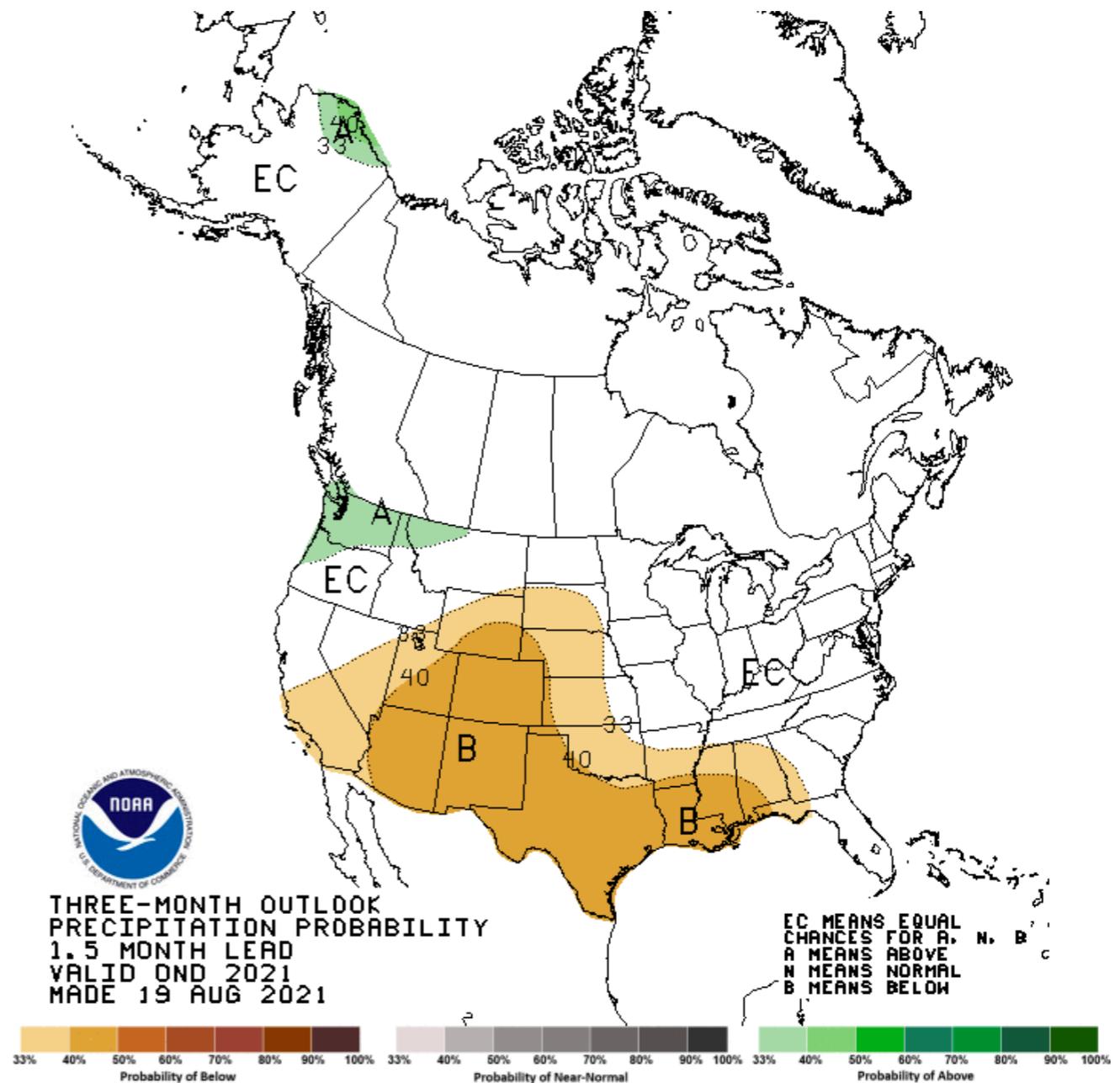
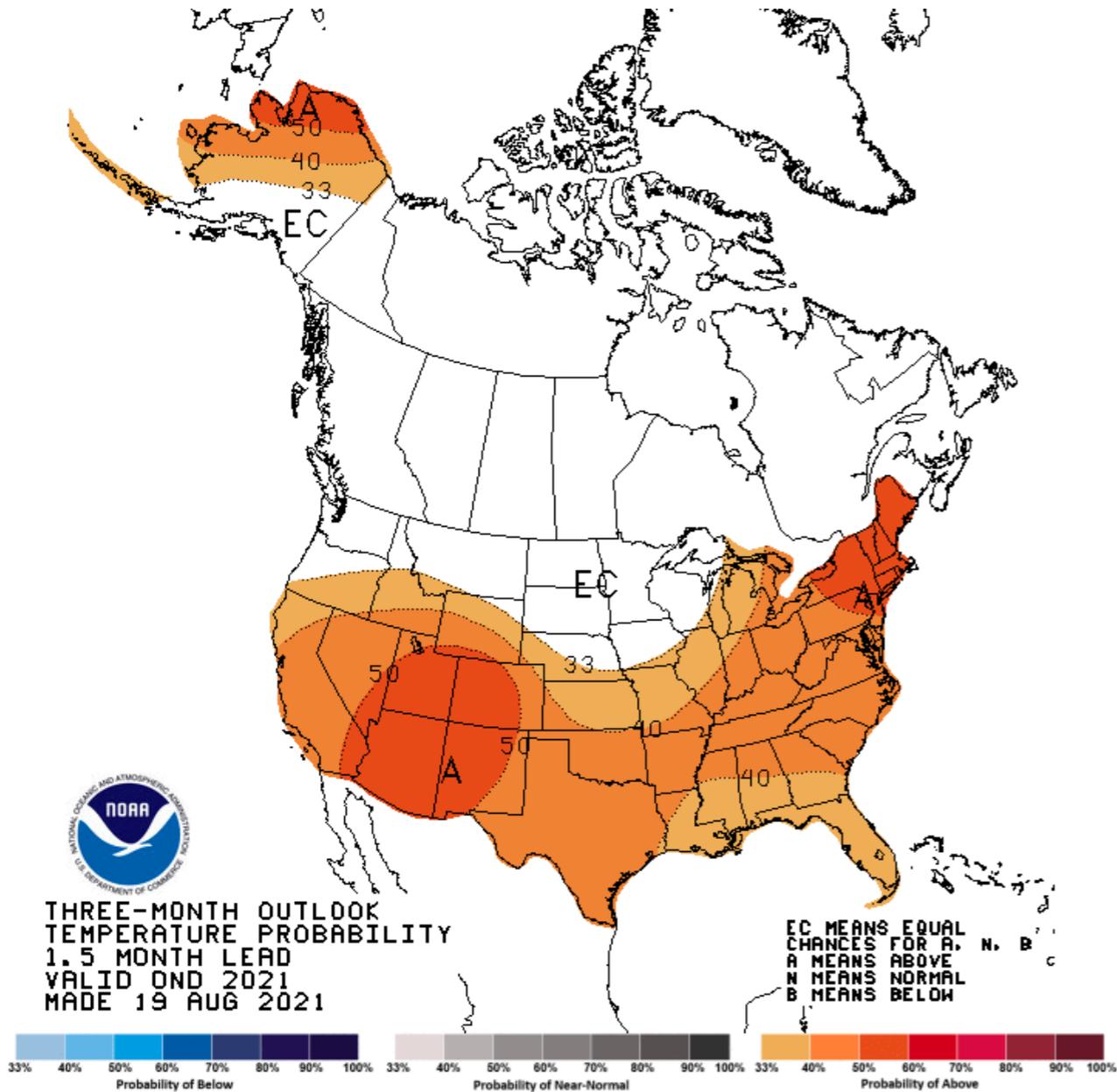
Thank you to our contributors





# 8-14 Day Outlook





# 3 Month Outlook



# Next Steps

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- Continually monitor conditions
- Developing a strategy for next year if drought conditions persist
- Updating Drought Response Plan with Drought Response Committee